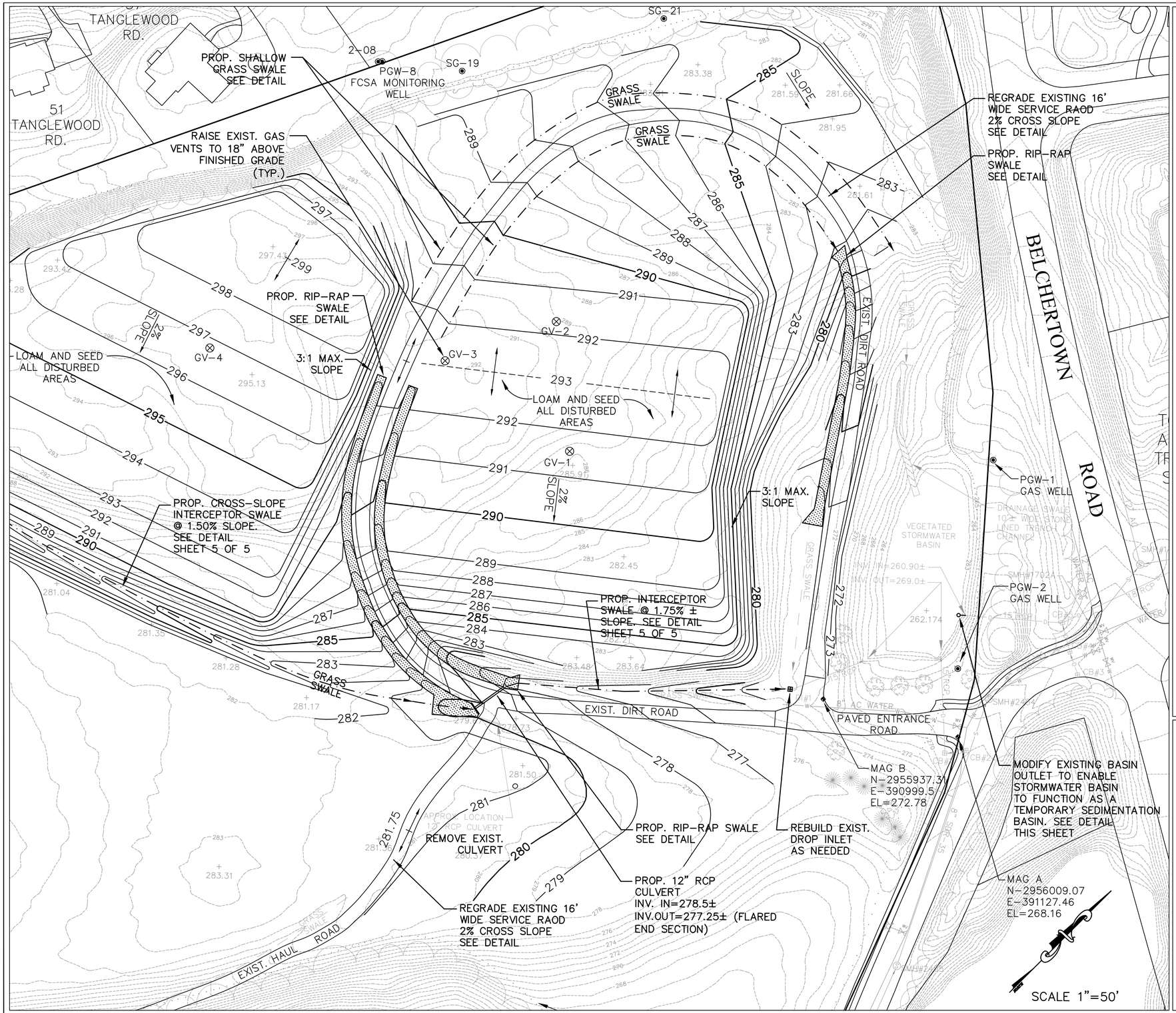


GRADING NOTES:

1. HORIZONTAL AND VERTICAL CONTROL ESTABLISHED BY THE TOWN OF AMHERST ENGINEERING DEPARTMENT, FEBRUARY, 2008. COORDINATE SYSTEM IS MASSACHUSETTS STATE PLAN, NAD83. CONTACT THE TOWN ENGINEERING DEPARTMENT FOR INFORMATION, 413-259-3152.

2. CONTROL POINTS ESTABLISHED BY THE TOWN OF AMHERST ENGINEERING DIVISION. ELEVATIONS ARE NOTED ON THE PLAN.

3. THE APPROXIMATE CLAY CAP LIMIT LINE WAS DERIVED FROM PLANS TITLED 'AMHERST SANITARY LANDFILL CLOSE OUT, PHASE I-A & II' PREPARED BY ALMER HUNTLEY, JR. & ASSOCIATE INC. DATED JANUARY 1986 AND A PLAN TITLED 'AUGUST 2008 GROUNDWATER CONTOUR PLAN, COMPREHENSIVE SITE ASSESSMENT (CSA) OLD AMHERST LANDFILL AMHERST MASSACHUSETTS' PREPARED BY TIGHE & BOND.

4. THE DEPTH TO THE CLAY CAP VARIES THOUGH OUT THE SITE. ALL PROPOSED GRADING INVOLVES FILL MATERIAL ONLY, NO CUT IS PROPOSED WITH THIS PROJECT. DO NOT DISTURB CLAY CAP LAYER.

5. MAXIMUM PROPOSED GRADE IS 33% (3:1 SLOPE). MINIMUM PROPOSED GRADE IS 2% ANY DEVIATION FROM THE GRADING PLAN MUST BE REVIEWED AND APPROVED BY THE TOWN ENGINEER.

6. ALL EXISTING METHANE GAS VENTS SHALL BE PROTECTED DURING ALL GRADING OPERATIONS AND ADJUSTED TO 18" MINIMUM ABOVE THE PROPOSED GRADES. (GV-1, GV-2, GV-3 AND GV-4)

EROSION CONTROL NOTES:

1. TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF ANY PHASE OF THE SITE WORK. EACH PHASE OF THE PROJECT SHALL BE STABILIZED PRIOR TO PROCEEDING TO THE NEXT PHASE. AREAS SUBJECT TO EROSION SHALL BE MINIMIZED IN TERMS OF TIME AND AREA.

2. DURING THE INSTALLATION OF ALL EROSION CONTROL MEASURES, CARE SHALL BE TAKEN TO AVOID DISTURBING OR PUNCTURING THE EXISTING CLAY CAP LAYER. WOODEN STAKES TO SECURE HAY BALES AND SEDIMENTATION FENCING SHALL ONLY BE USED IN AREAS OUTSIDE THE CLAY CAP LAYER.

3. NATURAL VEGETATION SHALL BE RETAINED WHENEVER FEASIBLE UP TO THE START OF A CONSTRUCTION ACTIVITY. DO NOT DISTURB VEGETATION AND TOPSOIL BEYOND THE PROPOSED LIMIT OF SILT FENCE ACTIVITIES.

4. THE PROPOSED DRAINAGE SWALES SHALL BE INSTALLED AND THE STORMWATER BASIN SHALL BE CONVERTED TO A TEMPORARY SEDIMENTATION BASIN PRIOR TO ANY FILL MATERIAL BEING ADDED OR/AND ANY REGRADING ACTIVITIES BEGIN ON THE SITE.

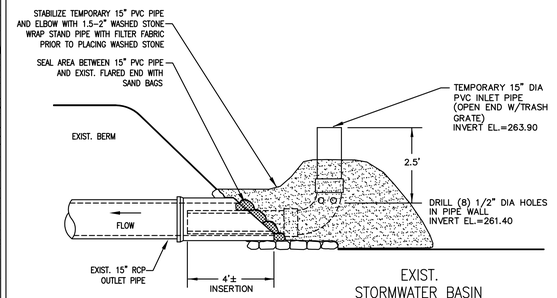
5. EARTHWORK ACTIVITIES SHALL BE PERFORMED IN A MANNER SUCH THAT RUNOFF IS DIRECTED TO THE DRAINAGE SWALES AND INTO THE TEMPORARY SEDIMENTATION BASIN.

6. EROSION AND SEDIMENTATION CONTROLS SHALL BE INSPECTED ON A WEEKLY BASIS AND FOLLOWING ANY STORM EVENT OF 0.5 INCHES OR GREATER. REPAIRS SHALL BE MADE ON AS-NEEDED BASIS, WITHIN 24 HOURS, AND ADDITIONAL CONTROL MEASURES MAY BE ADDED AT ANY TIME.

7. SEDIMENT SHALL BE REMOVED FROM THE TEMPORARY SEDIMENTATION BASIN WHEN DEPTH REACHED 10". BASIN SHALL BE RESTORED TO ORIGINAL CONDITION AFTER COMPLETION OF ALL SITE WORK AND ONCE VEGETATION IS PERMANENTLY ESTABLISHED ON THE SITE.

8. STRAW BALES AND SILT FENCE SHALL BE CLEANED ONCE SEDIMENT ACCUMULATES TO WITHIN ONE THIRD OF THE HEIGHT OF THE FENCE.

9. TEMPORARY AND PERMANENT SEEDING SHALL BE PERIODICALLY INSPECTED FOR BARE SPOTS AND WASHOUTS, AND SHALL BE RESEEDED AS NECESSARY.



NOTES:

1. MODIFY EXITING STORMWATER BASIN INTO TEMPORARY SEDIMENTATION BASIN PRIOR TO THE START OF CONSTRUCTION.
2. SEDIMENT TO BE REMOVED FROM BASIN WHEN ACCUMULATED DEPTH REACHES 6"
3. BASIN TO BE RESTORED TO ORIGINAL CONDITION AFTER COMPLETION OF ALL SITE WORK AND ONCE SITE VEGETATION IS PERMANENTLY ESTABLISHED

MODIFICATION TO EXISTING STORMWATER BASIN OUTLET

N.T.S.

LEGEND:

- PROPERTY LINE-LOCUS PARCEL
- PROPERTY LINE- ABUTTERS
- 314 EXIST. CONTOUR LINE
- EXIST. TREE LINE
- W W EXIST. WATER LINE
- S S EXIST. SEWER LINE
- D D EXIST. DRAIN LINE
- EXIST. FIRE HYDRANT
- EXIST. CATCH BASIN
- EXIST. SEWER MANHOLE
- EXIST. DRAIN MANHOLE
- EXIST. WATER GATE VALVE
- EXIST. CONTROL POINT
- GV-3 EXIST. GAS VENT
- EXIST. MONITORING WELL
- APPROX. CLAY CAP LIMIT
- GRASS SWALE EXIST. GRASS SWALE
- EXIST. STONE LINED CHANNEL
- 290 PROPOSED CONTOUR LINE- MAJOR
- 292 PROPOSED CONTOUR LINE- MINOR
- PROPOSED CATCH BASIN OR DROP INLET
- PROPOSED DRAINAGE PIPE
- +284.5 PROPOSED SPOT ELEVATION

EXISTING DRAINAGE STRUCTURES:

DI#1 RIM=275± INV. OUT=272.00± (15" RCP PIPE) **REBUILD AS NEEDED**	CB#2 RIM=270.70 INV. OUT=264.80 (12" RCP PIPE)	CB#4 RIM=264.56 INV. IN=262.98 INV. OUT=262.93 (12" RCP PIPE)	CB#5 RIM=263.05 INV. IN=262.80 (12") INV. IN=260.80 (15") INV. OUT=260.21 (18" RCP PIPE)
CB#1 RIM=270.13 INV. OUT=264.60 (15" RCP PIPE)	CB#3 RIM=264.38 INV. OUT=263.11 (12" RCP PIPE)		

DRAWN BY: PGD CHCKD BY:	REV. JULY 12, 2010
SCALE: 1"=50'	DEP COMMENTS
DATE: MAY 4, 2010	
JOB NO.: TP10-07	
SHEET: 2 OF 5	

JOB NAME: **BWP SWI LANDFILLS**
LOCATION: **MAJOR MODIFICATION PERMIT**
OLD AMHERST LANDFILL
OLD BELCHERTOWN ROAD
AMHERST, MASSACHUSETTS 01002

DESCRIPTION: **PROPOSED MODIFICATION/GRADING PLAN**

TOWN OF AMHERST
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
586 SOUTH PLEASANT STREET
AMHERST, MA. 01002
413-259-3050